







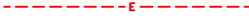





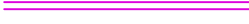
















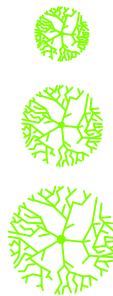


General Legend

-  Gas Main
-  Gas Service
-  Water Main
-  Water Service
-  Sanitary Sewer Main
-  Sanitary Sewer Service
-  Underground Telephone Cable
-  Underground Telephone Service
-  Underground Electrical Cable
-  Underground Electrical Service
-  Overhead Electrical Cable
-  Overhead Electrical Service
-  Underground Cable TV
-  Underground Cable TV Service
-  Existing Storm Sewer
-  Existing Reducer
-  New Reducer
-  Existing Valve
-  New Valve
-  Stop Box
-  Existing Fire Hydrant
-  New Fire Hydrant
-  Meter Pit
-  Existing Manhole
-  New Manhole
-  Utility Pole
-  Property Pin
-  Poured Thrust Block
-  Gas Meter
-  Telephone Pedestal
-  Tracer Wire Riser

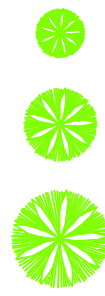
Deciduous Trees



Trunk Dia.

- under 12"
- 12" to 24"
- above 24"

Evergreen Trees



Sheet Index

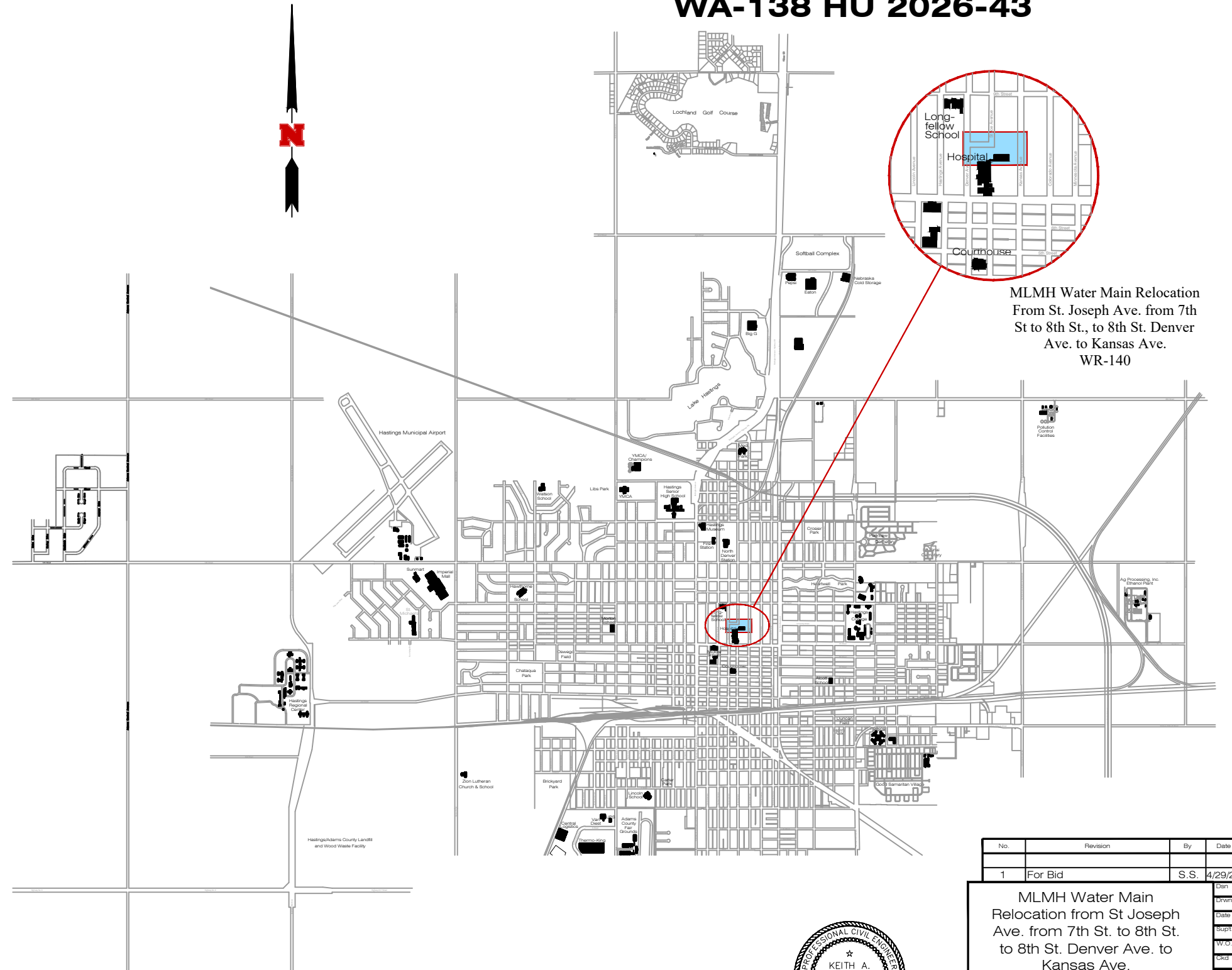
- CW1.1 to CW1.6 Water Main Improvements Plan and Profile Sheets
- CW2.1 to CW2.2 Water Main Improvements Civil Fitting Details
- CW3.1 Water Main Improvements Civil Standard Plan Details



Hastings Utilities

2026

MLMH Water Main Relocation from St. Joseph Ave. from 7th St. to 8th St., to 8th St. Denver Ave to Kansas Ave.. WA-138 HU 2026-43

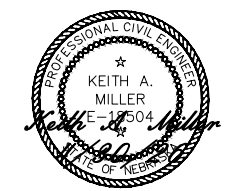


MLMH Water Main Relocation
From St. Joseph Ave. from 7th
St to 8th St., to 8th St. Denver
Ave. to Kansas Ave.
WR-140

No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

Den	K. Miller
Drawn	S. Struss
Date	4/29/2026
Supt.	B. Lubken
W.D. No.	WA-138
Ckd	
Ckd	

Sheet No.	Cover
No.	WR-140



Lee Vrooman 5/1/26
City Engineer



Know what's below.
Call before you dig.



Hastings Utilities

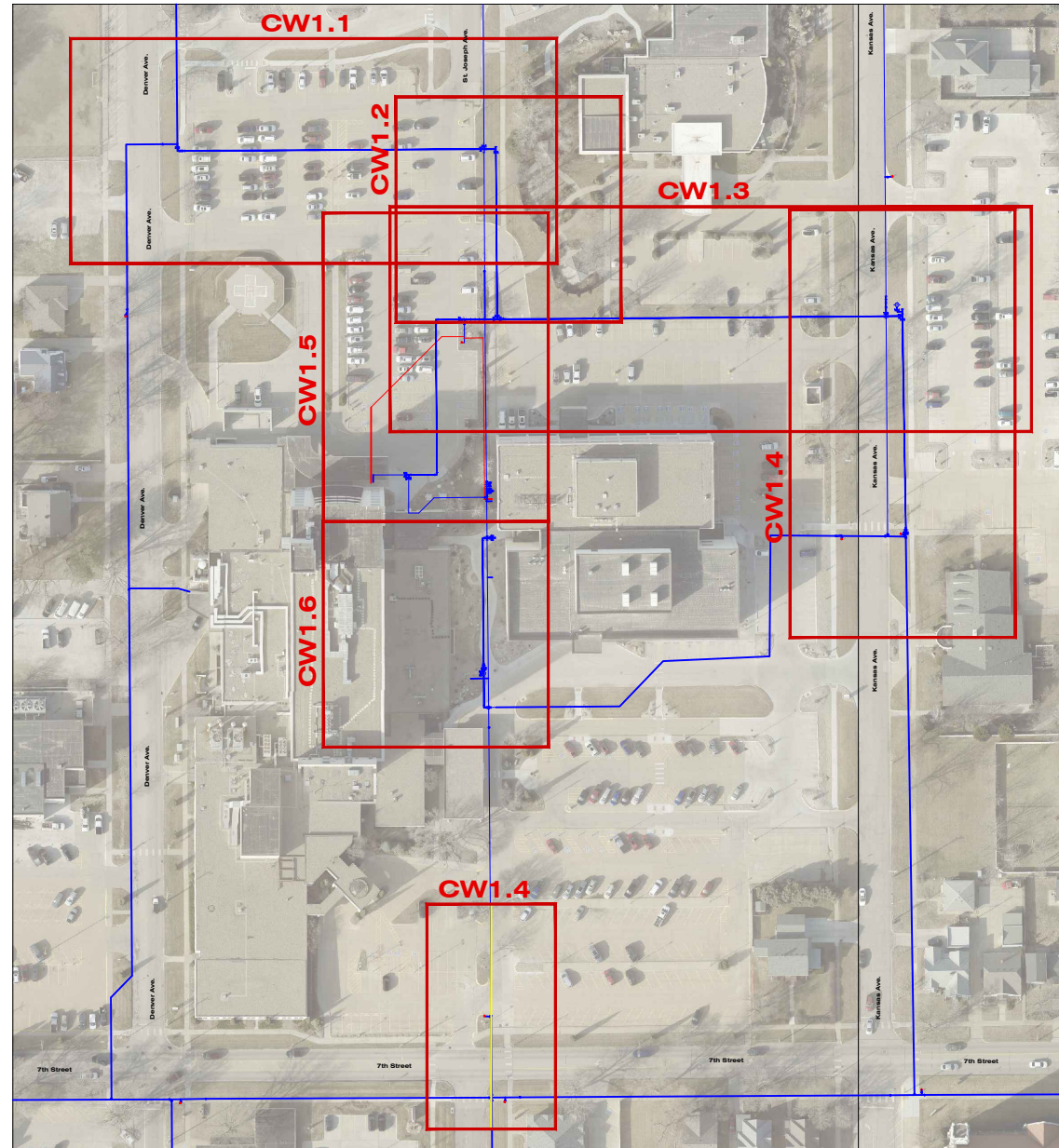
2026

MLMH Water Main Relocation from St. Joseph Ave. from 7th St. to 8th St., to 8th St. Denver Ave to Kansas Ave.. WA-138 HU 2026-43



General Notes

1. The Contractor will be Responsible for Notifying the City Street Department Office at (402)461-2341 and the Communications Center at (402)461-2364 for all Temporary Street Closings Prior to Construction.
2. The Contractor will be Responsible for Calling "Diggers Hotline" for Locations of all Underground Facilities.
3. The Contractor will be Responsible for Replacement of Gravel on Driveways or Streets in this Area.
4. The Contractor Shall be Responsible for Repair of Construction Site to Fine Grading for Seeding. Damaged Areas Shall be Levelled Out to Match Existing Grade Conditions and Raked to Provide Suitable Bedding for Seeding. All Unsuitable Material Shall be Removed Such as Rock, Concrete, Etc. and is Subsidiary to the Bid. Owner to Seed.
5. The Contractor Shall be Responsible for the Erosion Control on the Project and is Subsidiary to the Bid. Removal of all Erosion Control Structures will be Removed by Hastings Utilities After Seeding is Established.
6. The Contractor is Responsible for the Traffic Control and Closure of any Lanes of Traffic and is Subsidiary to the Bid. All Barricades and Barricading Shall Comply with the Latest Edition of Part VI of the Manual on "Uniform Traffic Control Devices".
7. Any Potholing or Excavating of Existing Utilities Needed to Complete this Project is Subsidiary to the Bid.
8. Some Properties in the Project Area May Have Underground Sprinklers on them. Any Damages and Repairs will be the Responsibility of the Contractor.

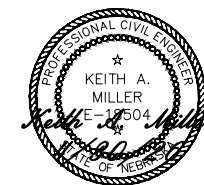


WATER MAIN QUANTITIES BID SECTION A					
10" HDD DIP Water Main	1047.00	Lin. Ft.	10" Foster Adaptor	16.00	Each
10" DIP Water Main	35.00	Lin. Ft.	4" Foster Adaptor	1.00	Each
8" DIP Water Main	5.00	Lin. Ft.	10" MEGA Lug	18.00	Each
4" DIP Water Main	5.00	Lin. Ft.	4" MEGA Lug	5.00	Each
10" Gate Valve and Box	10.00	Each	Remove 10" MJ Plug	2.00	Each
4" Gate Valve and Box	1.00	Each	Remove 4" Gate Valve and Box	1.00	Each
			Remove 4" Foster Adaptor	1.00	Each
Fire Hydrant (5'-6" Bury)	2.00	Each	Remove Fire Hydrant Assembly	1.00	Each
FH 6" Gate Valve and Box	2.00	Each	Tree Removal	1.00	Each
FH 10"x 6" MJ Tee (2)	180.00	Pounds			
FH 6", 36" SW x SW Adapter (3)	261.00	Pounds	Remove and Replace Conc./Asphalt Street	13.00	Sq. Yds.
FH 6" Foster Adaptor	1.00	Each	Remove and Replace Concrete Drive	119.00	Sq. Yds.
			Remove and Replace Concrete Sidewalk	465.00	Sq. Ft.
10"x 10" MJ Cross (1)	145.00	Pounds	Remove and Replace Concrete Curb	125.00	Lin. Ft.
10"x 10" MJ Tee (5)	600.00	Pounds	Sawcut	280.00	Lin. Ft.
10"x 4" MJ Tee (1)	78.00	Pounds			
10" 90° MJ Bend (2)	178.00	Pounds	3 lb. Anode	3.00	Each
10" 45° MJ Bend (2)	140.00	Pounds	Blue Water Marking Tape	1241.00	Lin. Ft.
4" 45° MJ Bend (2)	44.00	Pounds	Tracer Wire	1241.00	Lin. Ft.
10" 11.25° MJ Bend (1)	58.00	Pounds	Tracer Wire Riser	4.00	Each
10" MJ Plug (5)	180.00	Pounds	Thrust Block	14.00	Each
4" MJ Plug (1)	10.00	Pounds			
10" MJ Cap (3)	96.00	Pounds			
4" MJ Cap (1)	9.00	Pounds			
8" Solid Sleeve (1)	45.00	Pounds			

WATER MAIN QUANTITIES BID SECTION B					
8" HDD DIP Water Main	139.00	Lin. Ft.	Remove 8" DIP Water Main	8.00	Lin. Ft.
8" DIP Water Main	39.00	Lin. Ft.	Remove 8" 22.5" MJ Bend	1.00	Each
6" DIP Water Main	5.00	Lin. Ft.	Remove 8" 45" MJ Bend	4.00	Each
4" DIP Water Main	4.00	Lin. Ft.	Remove 8"x 8" MJ Tee w/8" MJ Plug	1.00	Each
			Remove Valve Box	2.00	Each
8" Gate Valve and Box	2.00	Each			
6" PIV Gate Valve	1.00	Each	Remove and Replace Concrete Drive	74.00	Sq. Yds.
4" Gate Valve and Box	1.00	Each	Remove and Replace Concrete Sidewalk	756.00	Sq. Ft.
			Remove and Replace Concrete Curb	44.00	Lin. Ft.
8"x 8" Tapping Sleeve By HU	1.00	Each	Sawcut	162.00	Lin. Ft.
8" Tapping Valve and Box By HU	1.00	Each			
			3 lb. Anode	2.00	Each
8"x 8" MJ Tee (4)	344.00	Pounds	Blue Water Marking Tape	186.00	Lin. Ft.
8"x 4" MJ Tee (1)	60.00	Pounds	Tracer Wire	186.00	Lin. Ft.
8" 90° MJ Bend (1)	57.00	Pounds	Tracer Wire Riser	2.00	Each
8" 45° MJ Bend (2)	92.00	Pounds	Thrust Block	13.00	Each
10" x 8" MJ Reducer (1)	50.00	Pounds			
8" x 6" MJ Reducer (1)	36.00	Pounds			
8" MJ Plug (6)	156.00	Pounds			
10" MJ Cap (2)	64.00	Pounds			
8" Foster Adaptor	4.00	Each			
6" Foster Adaptor	1.00	Each			
4" Foster Adaptor	1.00	Each			
8" MEGA Lug	10.00	Each			



Lee Vrooman 5/1/26
City Engineer



No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

MLMH Water Main Relocation from St Joseph Ave. from 7th St. to 8th St. to 8th St. Denver Ave. to Kansas Ave.		Desn K. Miller
		Dwn S. Struss
		Date 4/29/2026
		Supt B. Lubken
		W/O No. WA-138
		Ckd
		Ckd
Sheet No. Quantities		
No. WR-140		

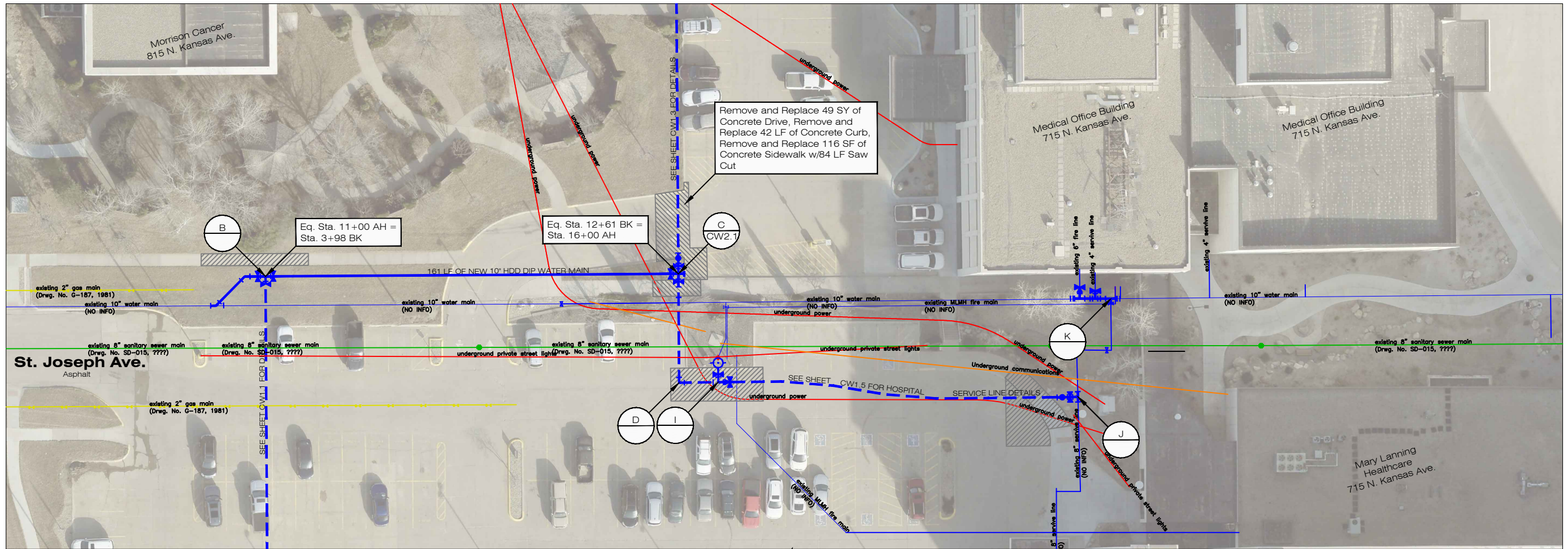


10+00

11+00

12+00

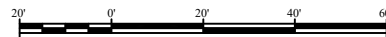
13+00



NOTE:
Private Underground Utilities On
MLMH Campus need to be Located
and Verified for Depths Prior to Start of
Construction.
Depth of New Main will be Determined
by this Information.

NORTH

Scale: 1" = 20'
(Reduced Scale: 1" = 30')

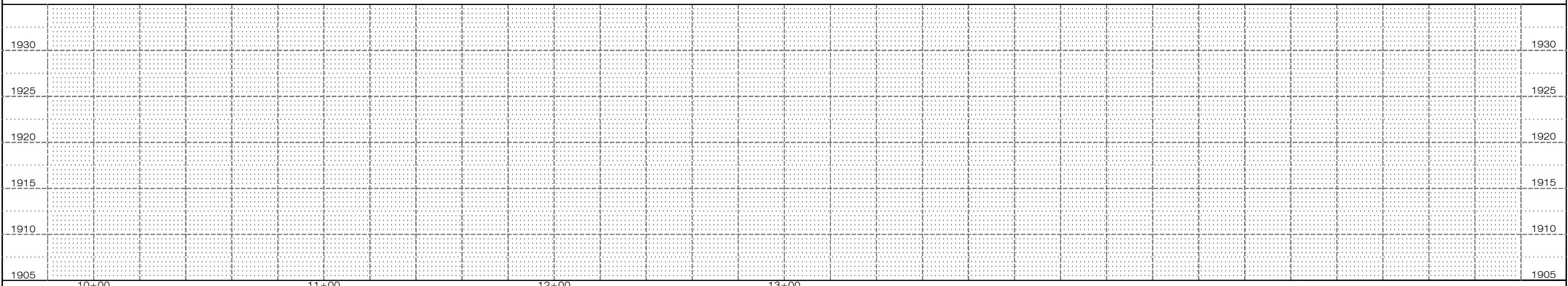


10+00

11+00

12+00

13+00



No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

Quantities are on Bid Section A		WATER MAIN QUANTITIES			
10' HDD DIP Water Main	161.00	Lin. Ft.	Remove and Replace Concrete Drive	49.00	Sq. Yds.
10' Gate Valve and Box	3.00	Each	Remove and Replace Concrete Sidewalk	116.00	Sq. Ft.
10'x 10' MJ Cross (1)	145.00	Pounds	Remove and Replace Concrete Curb	42.00	Lin. Ft.
10'x 10' MJ Tee (1)	120.00	Pounds	Sawcut	84.00	Lin. Ft.
10' 11 25' MJ Bend (1)	58.00	Pounds			
10' MJ Plug (2)	72.00	Pounds			
10' Foster Adaptor	4.00	Each	Blue Water Marking Tape	177.00	Lin. Ft.
10' MEGA Lug	5.00	Each	Tracer Wire	177.00	Lin. Ft.
			Tracer Wire Riser	1.00	Each
			Thrust Block	1.00	Each



MLMH Water Main
Relocation from St Joseph
Ave. from 7th St. to 8th St.
to 8th St. Denver Ave. to
Kansas Ave.



Desn	K. Miller
Dwn	S. Struss
Date	4/29/2026
Supt	B. Lubken
W.D. No.	WA-138
Ckd	
Ckd	
Sheet No.	CW1.2
No.	WR-140



15+00

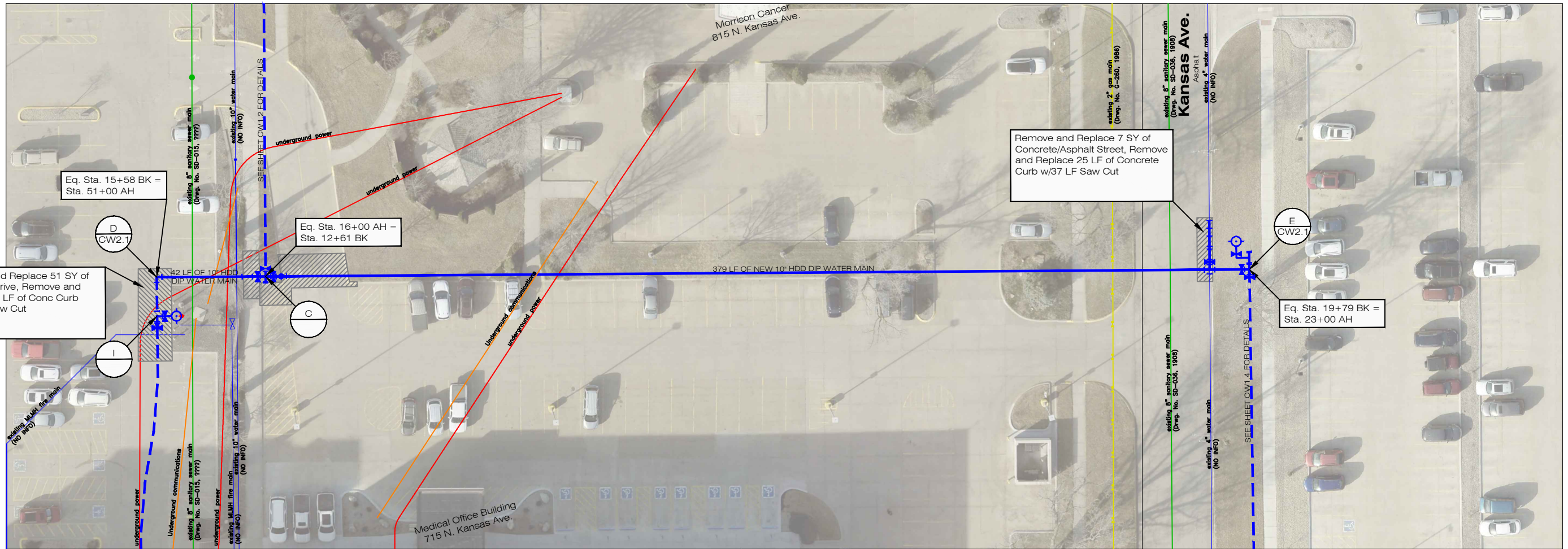
16+00

17+00

18+00

19+00

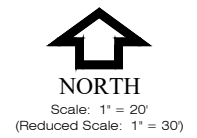
20+00



Remove and Replace 51 SY of Concrete Drive, Remove and Replace 24 LF of Conc Curb w/73 LF Saw Cut

Remove and Replace 7 SY of Concrete/Asphalt Street, Remove and Replace 25 LF of Concrete Curb w/37 LF Saw Cut

NOTE:
Private Underground Utilities On MLMH Campus need to be Located and Verified for Depths Prior to Start of Construction.
Depth of New Main will be Determined by this Information.



15+00

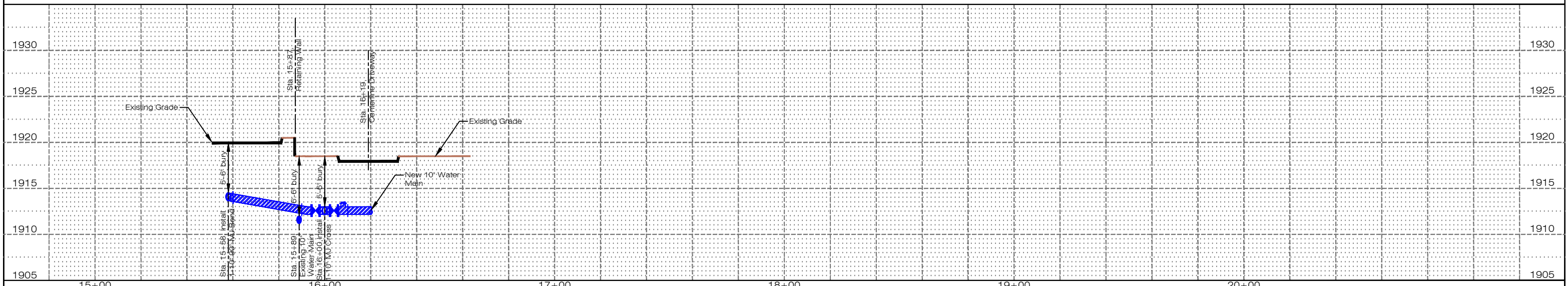
16+00

17+00

18+00

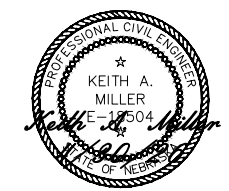
19+00

20+00



No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

WATER MAIN QUANTITIES									
Quantities are on Bid Section A									
10" HDD DIP Water Main	379.00	Lin. Ft.	10"x 10" MJ Tee (1)	120.00	Pounds	Remove and Replace Conc./Asphalt Street	7.00	Sq. Yds.	
4" DIP Water Main	5.00	Lin. Ft.	10"x 4" MJ Tee (1)	78.00	Pounds	Remove and Replace Concrete Drive	51.00	Sq. Yds.	
10" Gate Valve and Box	2.00	Each	10" 90° MJ Bend (1)	89.00	Pounds	Remove and Replace Concrete Curb	49.00	Lin. Ft.	
4" Gate Valve and Box	1.00	Each	4" 45° MJ Bend (2)	44.00	Pounds	Sawcut	110.00	Lin. Ft.	
Fire Hydrant (5'-6" Bury)	1.00	Each	10" MJ Plug (1)	36.00	Pounds				
FH 6" Gate Valve and Box	1.00	Each	4" MJ Cap (1)	9.00	Pounds				
FH 10"x 6" MJ Tee (1)	90.00	Pounds	10" Foster Adaptor	3.00	Each				
FH 6", 36" SW x SW Adapter (1)	87.00	Pounds	4" Foster Adaptor	1.00	Each	3 lb. Anode	1.00	Each	
FH 6" Foster Adaptor	1.00	Each	10" MEGA Lug	6.00	Each	Blue Water Marking Tape	463.00	Lin. Ft.	
			4" MEGA Lug	5.00	Each	Tracer Wire	463.00	Lin. Ft.	
						Tracer Wire Riser	1.00	Each	
						Thrust Block	6.00	Each	



MLMH Water Main Relocation from St Joseph Ave. from 7th St. to 8th St. Denver Ave. to Kansas Ave.



Des	K. Miller
Drawn	S. Struss
Date	4/29/2026
Supt	B. Lubken
W.D. No.	WA-138
Ckd	
Ckd	
Sheet No.	CW1.3
No.	WR-140



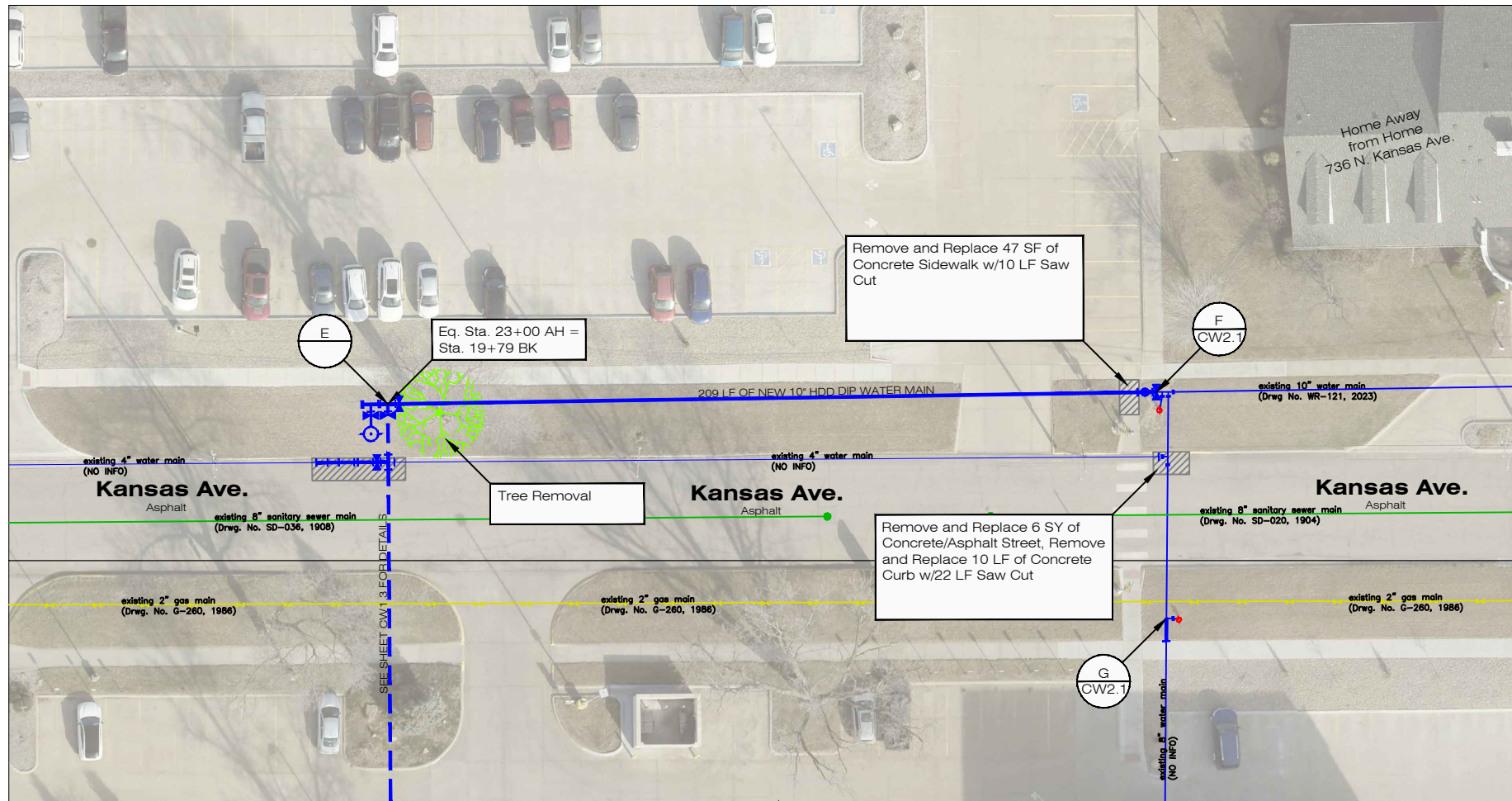
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23+00

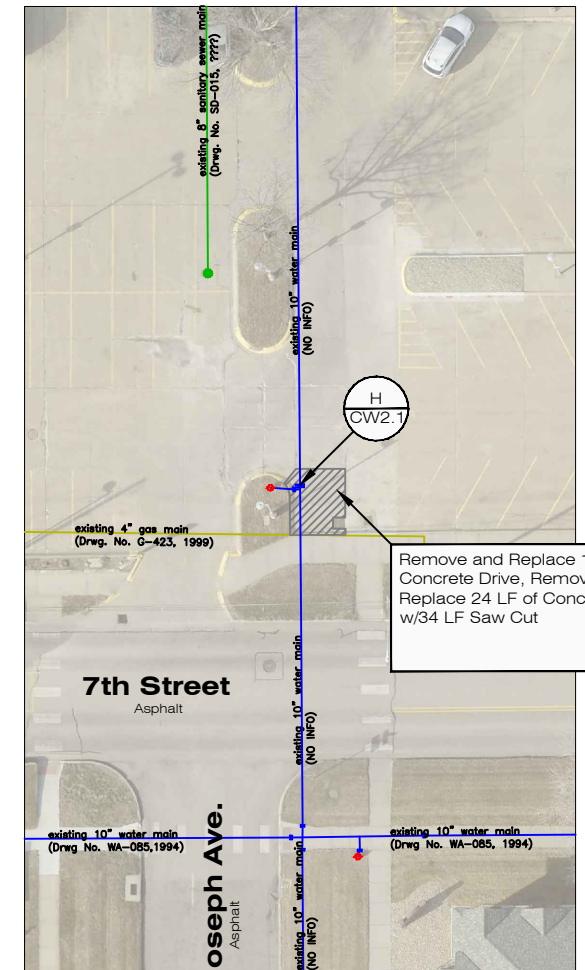
24+00

25+00

26+00



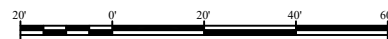
30+00



NOTE:
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MLMH Campus need to be Located
and Verified for Depths Prior to Start of
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by this Information.

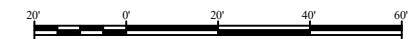
NORTH

Scale: 1" = 20'
(Reduced Scale: 1" = 30')



NORTH

Scale: 1" = 20'
(Reduced Scale: 1" = 30')



22+00

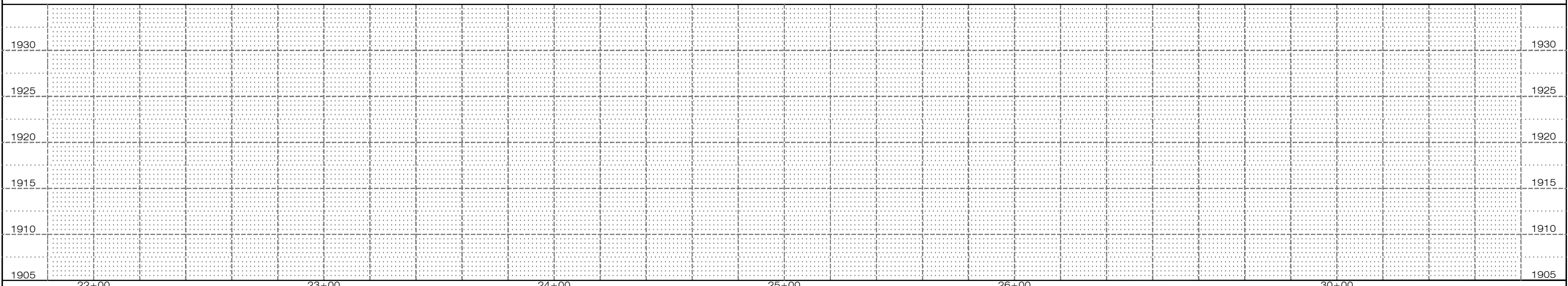
23+00

24+00

25+00

26+00

30+00



22+00

23+00

24+00

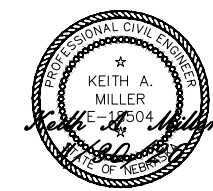
25+00

26+00

30+00

No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

Quantities are on Bid Section A						WATER MAIN QUANTITIES					
10" HDD DIP Water Main	209.00	Lin. Ft.	Remove Fire Hydrant Assembly	1.00	Each						
8" DIP Water Main	5.00	Lin. Ft.	Tree Removal	1.00	Each						
10" Gate Valve and Box	1.00	Each	Remove and Replace Conc./Asphalt Street	6.00	Sq. Yds.						
10"x 10" MJ Tee (1)	120.00	Pounds	Remove and Replace Concrete Drive	19.00	Sq. Yds.						
10" MJ Plug (1)	36.00	Pounds	Remove and Replace Concrete Sidewalk	47.00	Sq. Ft.						
4" MJ Plug (1)	10.00	Pounds	Remove and Replace Concrete Curb	34.00	Lin. Ft.						
10" MJ Cap (2)	64.00	Pounds	Sawcut	66.00	Lin. Ft.						
8" Solid Sleeve (1)	45.00	Pounds									
10" Foster Adaptor	2.00	Each	3 lb. Anode	1.00	Each						
Remove 10" MJ Plug	1.00	Each	Blue Water Marking Tape	235.00	Lin. Ft.						
Remove 4" Gate Valve and Box	1.00	Each	Tracer Wire	235.00	Lin. Ft.						
Remove 4" Foster Adaptor	1.00	Each	Thrust Block	2.00	Each						

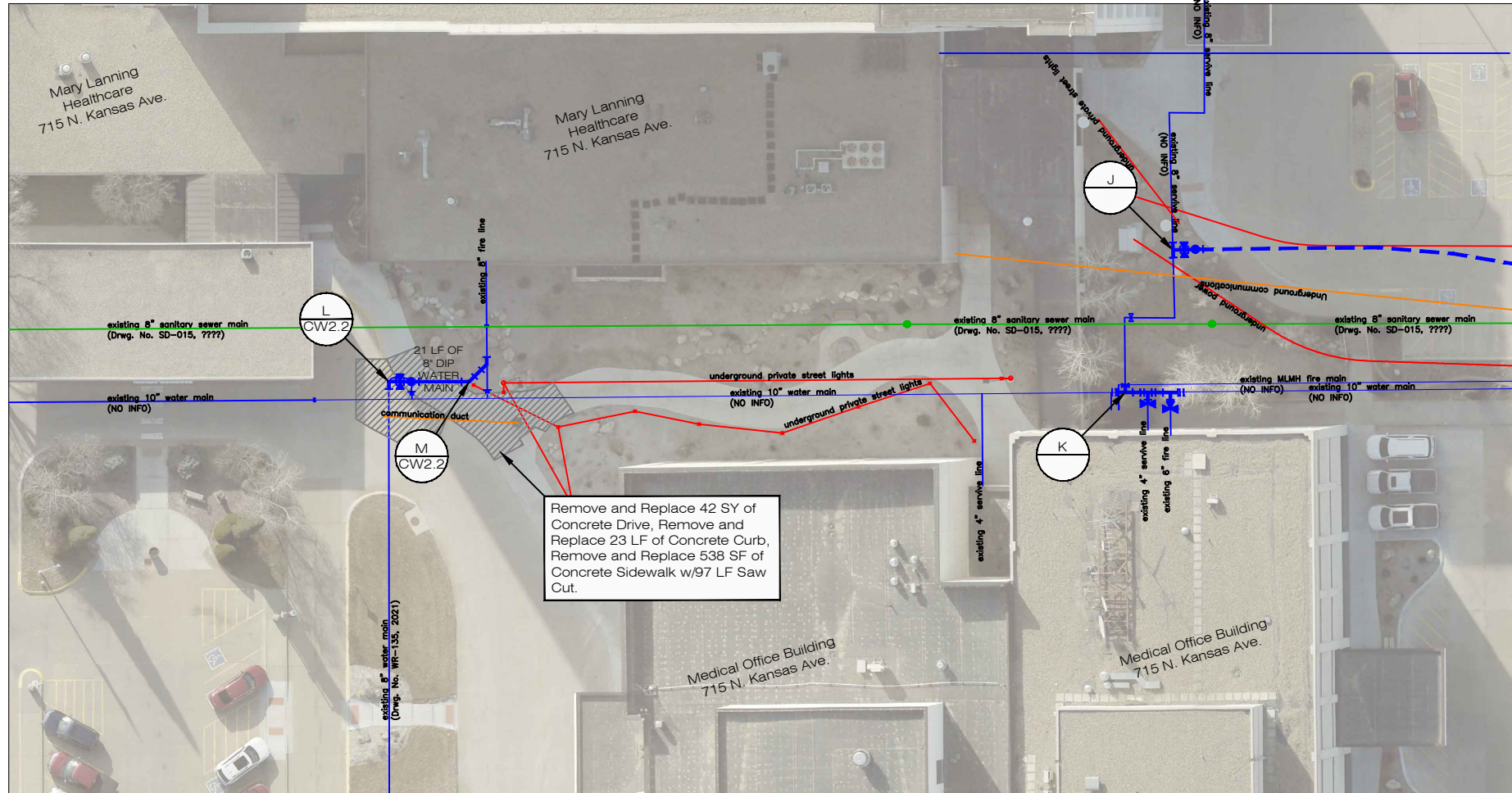


MLMH Water Main
Relocation from St Joseph
Ave. from 7th St. to 8th St.
to 8th St. Denver Ave. to
Kansas Ave.



Desn	K. Miller
Drawn	S. Struss
Date	4/29/2026
Supt.	B. Lubken
W.D. No.	WA-138
Ckd	
Sheet No.	CW1.4
No.	WR-140



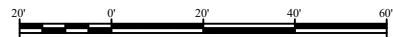


Remove and Replace 42 SY of Concrete Drive, Remove and Replace 23 LF of Concrete Curb, Remove and Replace 538 SF of Concrete Sidewalk w/97 LF Saw Cut.

NOTE:
Private Underground Utilities On MLMH Campus need to be Located and Verified for Depths Prior to Start of Construction.
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NORTH

Scale: 1" = 20'
(Reduced Scale: 1" = 30')



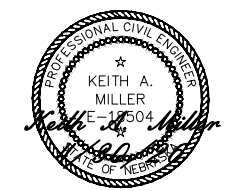
MLMH SERVICE LINE WORK
BID SECTION B

MLMH SERVICE LINE WORK
BID SECTION B

1930	60+00	61+00	62+00	63+00	64+00	1930
1925						1925
1920						1920
1915						1915
1910						1910
1905	60+00	61+00	62+00	63+00	64+00	1905

No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26

WATER MAIN QUANTITIES					
8" DIP Water Main	29.00	Lin. Ft.	Remove 8" DIP Water Main	8.00	Lin. Ft.
8" Gate Valve and Box	1.00	Each	Remove 8" 22.5" MJ Bend	1.00	Each
8"x 8" MJ Tee (1)	86.00	Pounds	Remove 8" 45" MJ Bend	4.00	Each
8" 90" MJ Bend (1)	57.00	Pounds	Remove 8"x 8" MJ Tee w/8" MJ Plug	1.00	Each
8" 45" MJ Bend (2)	92.00	Pounds	Remove Valve Box	2.00	Each
8" MJ Plug (3)	78.00	Pounds			
8" Foster Adaptor	2.00	Each			
8" MEGA Lug	6.00	Each			
Remove and Replace Concrete Drive	42.00	Sq. Yds.			
Remove and Replace Concrete Sidewalk	538.00	Sq. Ft.			
Remove and Replace Concrete Curb	23.00	Lin. Ft.			
Sawcut	97.00	Lin. Ft.			
3 lb. Anode	1.00	Each			
Blue Water Marking Tape	33.00	Lin. Ft.			
Tracer Wire	33.00	Lin. Ft.			
Tracer Wire Riser	1.00	Each			
Thrust Block	5.00	Each			

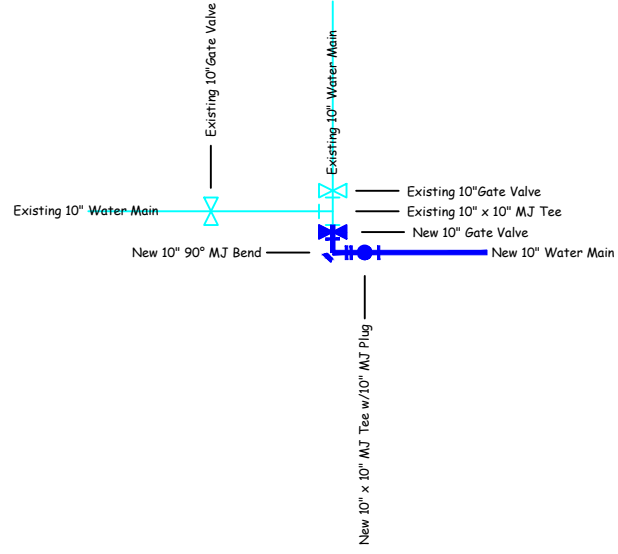


MLMH Water Main
Relocation from St Joseph
Ave. from 7th St. to 8th St.
to 8th St. Denver Ave. to
Kansas Ave.



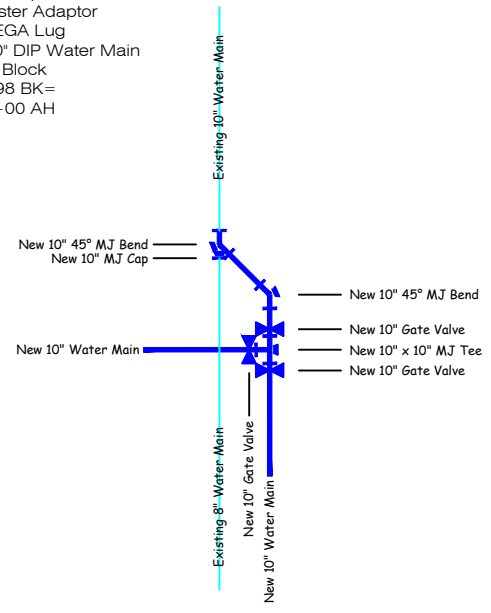
Desn	K. Miller
Dwn	S. Struss
Date	4/29/2026
Supt	B. Lubken
W.D. No.	WA-138
Ckd	
Ckd	
Sheet No.	CW1.6
No.	WR-140

- Sta. 01+00, Remove
 1 - 10" MJ Plug
 Sta. 01+00, Install
 1 - 10"x 10" MJ Tee
 1 - 10" Gate Valve and Box
 1 - 10" 90° MJ Bend
 1 - 10" MJ Plug
 3 - 10" Foster Adaptor
 1 - 10" Mega Lug
 1 - Tracer Wire Riser
 1 - Thrust Block



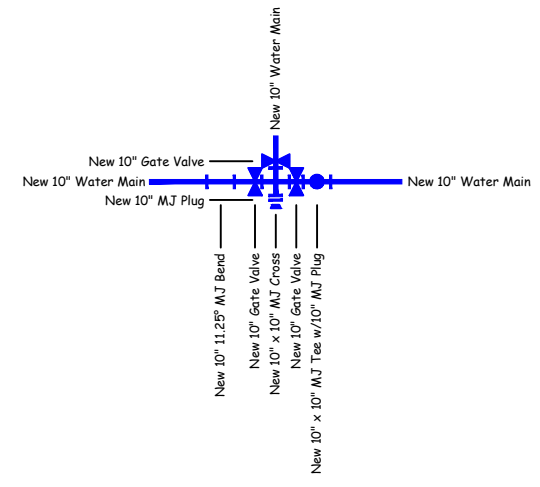
A
CW2.1

- Sta. 3+98, Install
 1 - 10"x 10" MJ Tee
 3 - 10" Gate Valve and Box
 2 - 10" 45° MJ Bend
 1 - 10" MJ Cap
 3 - 10" Foster Adaptor
 5 - 10" MEGA Lug
 20 LF - 10" DIP Water Main
 4 - Thrust Block
 Eq. Sta. 3+98 BK=
 Eq. Sta. 11+00 AH



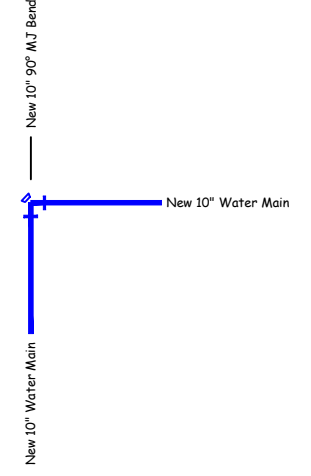
B
CW2.1

- Sta. 16+00, Install
 1 - 10"x 10" MJ Cross
 1 - 10"x 10" MJ Tee
 3 - 10" Gate Valve and Box
 1 - 10" 11.25° MJ Bend
 2 - 10" MJ Plug
 4 - 10" Foster Adaptor
 5 - 10" MEGA Lugs
 1 - Tracer Wire Riser
 1 - Thrust Block
 Eq. Sta. 12+61 BK=
 Eq. Sta. 16+00 AH



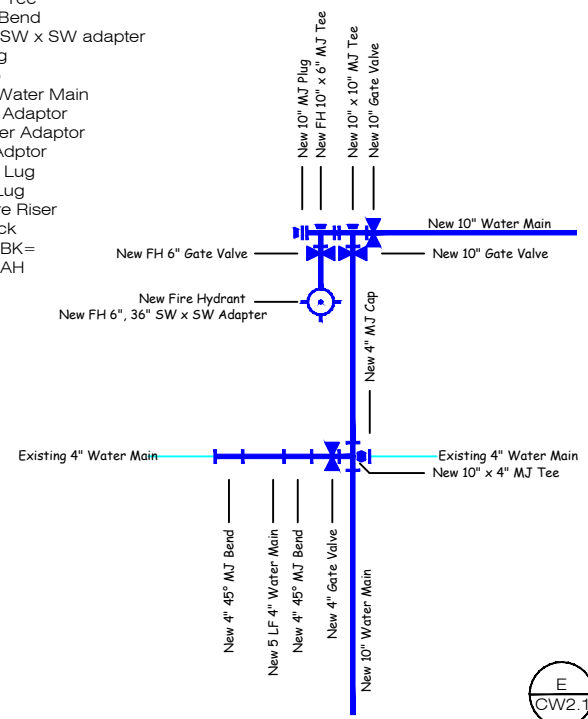
C
CW2.1

- Sta. 15+58, Install
 1 - 10" 90° MJ Bend
 2 - 10" MEGA Lug
 1 - Thrust Block
 Eq. Sta. 15+58 BK=
 Eq. Sta. 51+00 AH



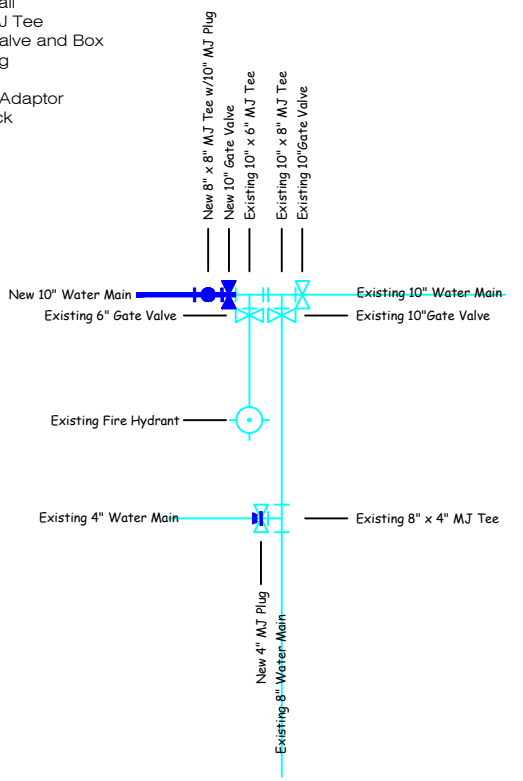
D
CW2.1

- Sta. 19+79, Install
 2 - 10" Gate Valve and Box
 1 - FH 6" Gate Valve and Box
 1 - 4" Gate Valve and Box
 1 - Fire Hydrant
 1 - 10"x 10" MJ Tee
 1 - FH 10" x 6" MJ Tee
 1 - 10"x 4" MJ Tee
 2 - 4" 45° MJ Bend
 1 - FH 6", 36" SW x SW adapter
 1 - 10" MJ Plug
 1 - 4" MJ Cap
 5 LF - 4" DIP Water Main
 3 - 10" Foster Adaptor
 1 - FH 6" Foster Adaptor
 1 - 4" Foster Adaptor
 4 - 10" MEGA Lug
 5 - 4" MEGA Lug
 1 - Tracer Wire Riser
 5 - Thrust Block
 Eq. Sta. 19+79 BK=
 Eq. Sta. 23+00 AH



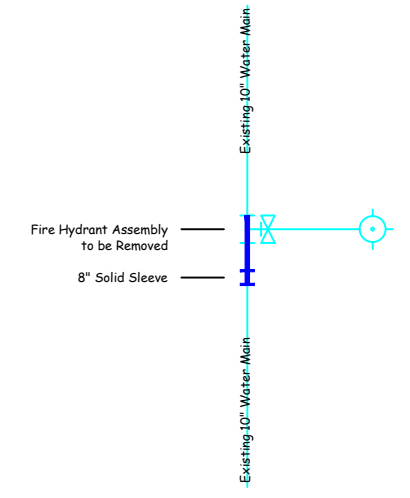
E
CW2.1

- Sta. 25+09, Remove
 1 - 10" MJ Plug
 1 - 4" Gate Valve
 1 - 4" Foster Adaptor
 Sta. 25+09, Install
 1 - 10"x 10" MJ Tee
 1 - 10" Gate Valve and Box
 1 - 10" MJ Plug
 1 - 4" MJ Plug
 2 - 10" Foster Adaptor
 1 - Thrust Block



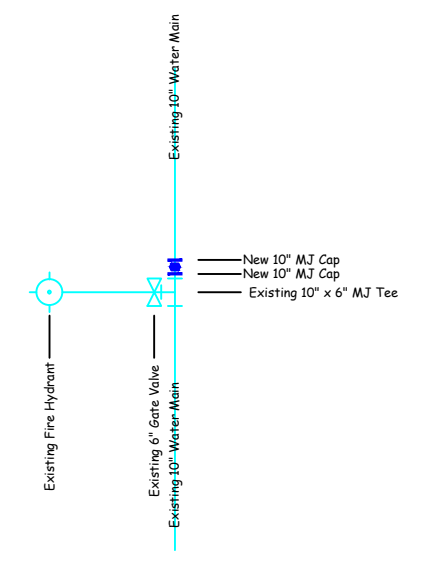
F
CW2.1

- Sta. 25+09, 60' Rt., Remove
 1 - Fire Hydrant Assembly
 Sta. 25+09, 60' Rt., Install
 1 - 8" Solid Sleeve
 5 LF - 8" DIP Water Main



G
CW2.1

- Sta. 30+00, Install
 2 - 10" MJ Cap
 1 - Thrust Block
 Disconnect Main From Fire Hydrant and
 Install Caps North of Fire Hydrant.



H
CW2.1



No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26



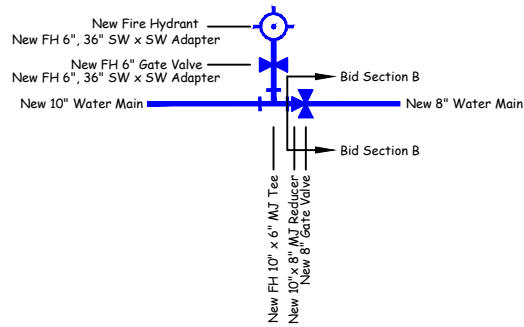
MLMH Water Main
 Relocation from St Joseph
 Ave. from 7th St. to 8th St.
 to 8th St. Denver Ave. to
 Kansas Ave.



Desn	K. Miller
Dwn	S. Struss
Date	4/29/2026
Supt	B. Lubken
W.D. No.	WA-138
Ckd	
Ckd	
Sheet No.	CW2.1
No.	WR-140

- Sta. 51+15, Install
 1 - FH 10"x 6" MJ Tee
 1 - 10"x 8" MJ Reducer
 1 - 8" Gate Valve and Box
 1 - FH 6" Gate Valve and Box
 1 - Fire Hydrant (5'-6" bury)
 2 - FH 6", 36" SW x SW Adapter
 1 - 10" Foster Adaptor
 1 - 8" Foster Adaptor
 1 - 10" MEGA Lug
 1 - 8" MEGA Lug
 1 - Tracer Wire Riser
 8"x4" Reducer, 8" Gate Valve, 10" Foster Adaptor, 8" Foster Adaptor and 8" MEGA Lug are Part of MLMH Service Line, Bid Section B

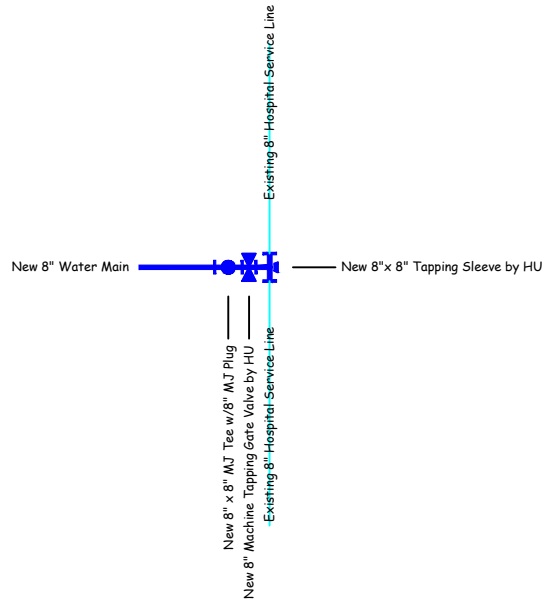
MLMH SERVICE LINE WORK
 BID SECTION B



I
 CW2.2

- Sta. 52+54, Install
 1 - 8"x 8" Tapping Sleeve by HU
 1 - 8" Tapping Valve by HU
 1 - 8"x 8" MJ Tee
 1 - 8" MJ Plug
 3 - 8" MEGA Lug
 1 - Tracer Wire Riser
 1 - Thrust Block
 MLMH Service Line, Bid Section B

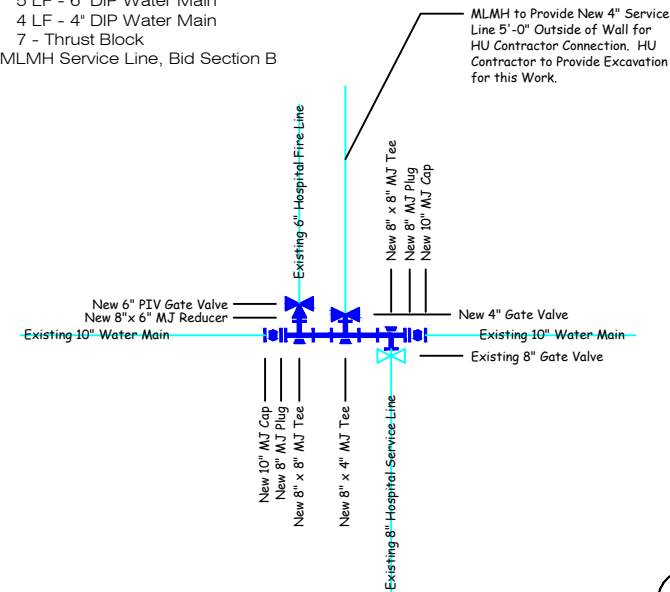
MLMH SERVICE LINE WORK
 BID SECTION B



J
 CW2.2

- Sta. 52+66, 46' Lt., Install
 2 - 8" x 8" MJ Tee
 1 - 8" x 4" MJ Tee
 1 - 6" PIV Gate Valve
 1 - 4" Gate Valve and Box
 1 - 8" x 6" MJ Reducer
 2 - 8" MJ Plug
 2 - 10" MJ Cap
 1 - 8" Foster Adaptor
 1 - 6" Foster Adaptor
 1 - 4" Foster Adaptor
 10 LF - 8" DIP Water Main
 5 LF - 6" DIP Water Main
 4 LF - 4" DIP Water Main
 7 - Thrust Block
 MLMH Service Line, Bid Section B

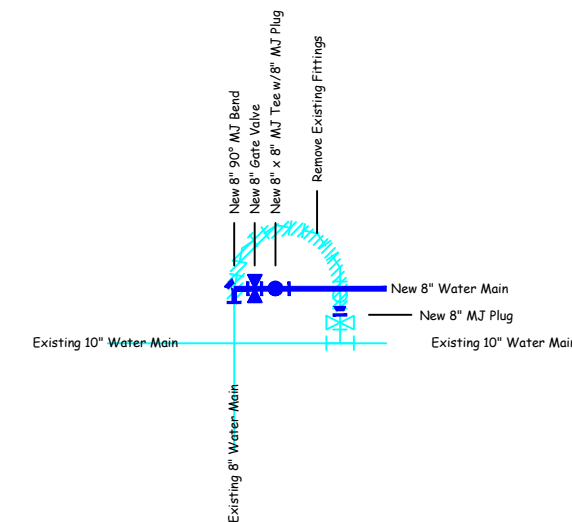
MLMH SERVICE LINE WORK
 BID SECTION B



K
 CW2.2

- Sta. 61+01, Remove
 1 - 8" 22.5" MJ Bend
 4 - 8" 45" MJ Bend
 1 - 8" x 8" MJ Tee w/8" MJ Plug
 1 - Valve Box
 Sta. 61+01, Install
 1 - 8" 90" MJ Bend
 1 - 8" Gate Valve and Box
 1 - 8" x 8" MJ Tee
 2 - 8" MJ Plug
 2 - 8" Foster Adaptor
 2 - 8" MEGA Lug
 2 - Thrust Block
 MLMH Service Line, Bid Section B

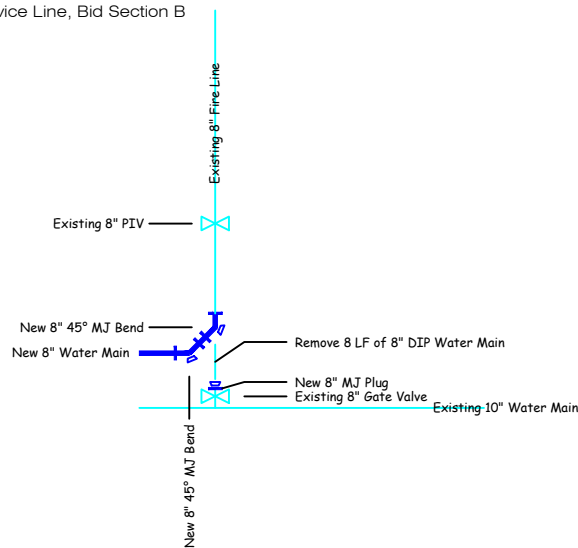
MLMH SERVICE LINE WORK
 BID SECTION B



L
 CW2.2

- Sta. 61+22, Remove
 8 LF - 8" DIP Water Main
 1 - Valve Box
 Sta. 61+22, Install
 2 - 8" 45" MJ Bend
 1 - 8" MJ Plug
 4 - 8" MEGA Lug
 8 LF - 8" DIP Water Main
 1 - Tracer Wire Riser
 3 - Thrust Block
 MLMH Service Line, Bid Section B

MLMH SERVICE LINE WORK
 BID SECTION B



M
 CW2.2



Know what's below.
 Call before you dig.

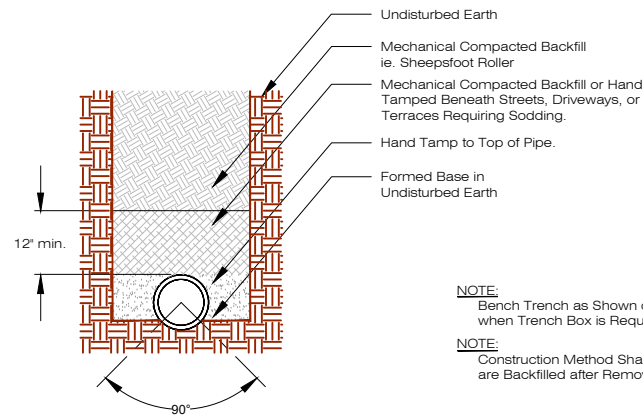
No.	Revision	By	Date	Ckd	App
1	For Bid	S.S.	4/29/26	K.M.	4/29/26



MLMH Water Main
 Relocation from St Joseph
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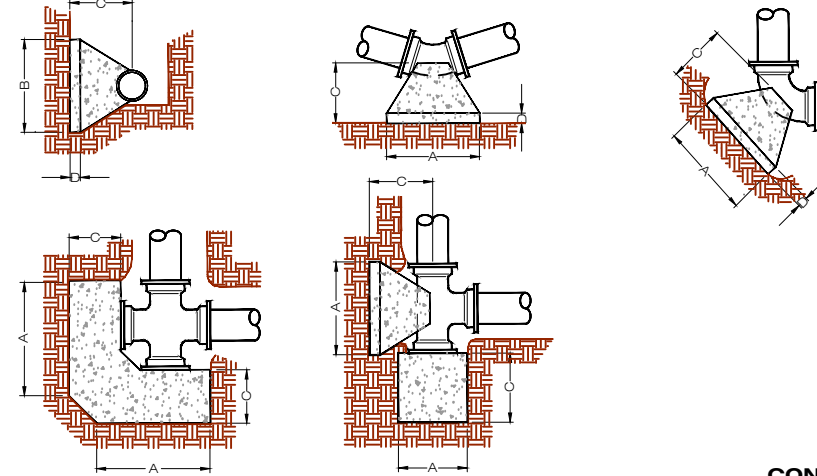
Desn	K. Miller
Dwn	S. Struss
Date	4/29/2026
Supt	B. Lubken
W.D. No.	WA-138
Ckd	
App	
Sheet No.	CW2.2
No.	WR-140



NOTE:
Bench Trench as Shown on Bedding Detail III when Trench Box is Required

NOTE:
Construction Method Shall Insure all Voids are Backfilled after Removal of Trench Box.

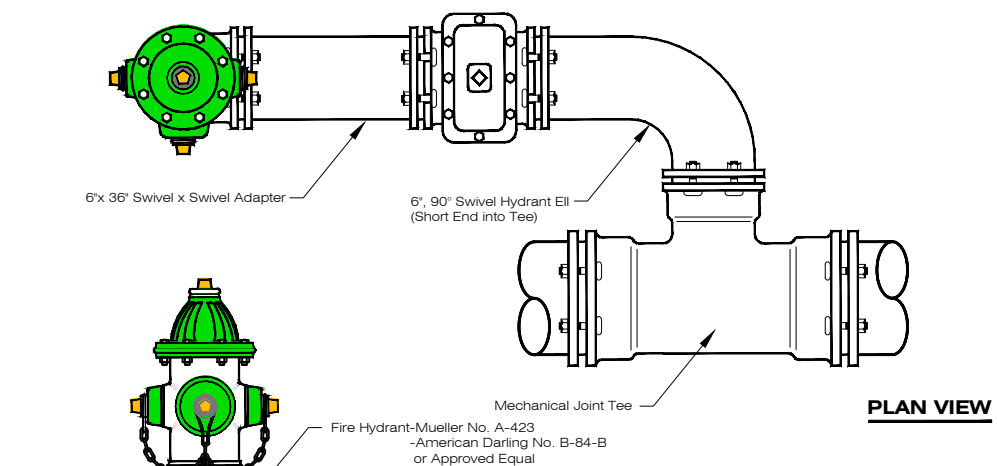
TYPE II BEDDING-DIP WATER MAIN
Not to Scale



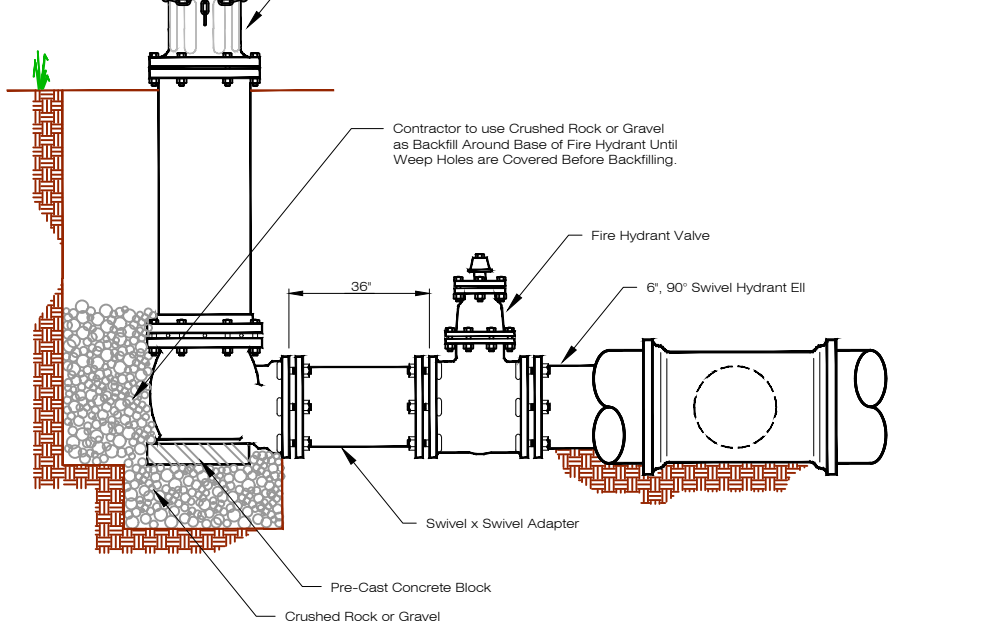
THRUST BLOCK DIMENSIONS

PIPE SIZE INCH	A FEET	B FEET	C FEET	D INCH
4	1.00	1.00	1.00	3
6	1.50	1.50	1.00	6
8	2.00	2.00	1.00	6
10	2.50	2.50	2.00	9
12	3.00	3.00	2.00	9

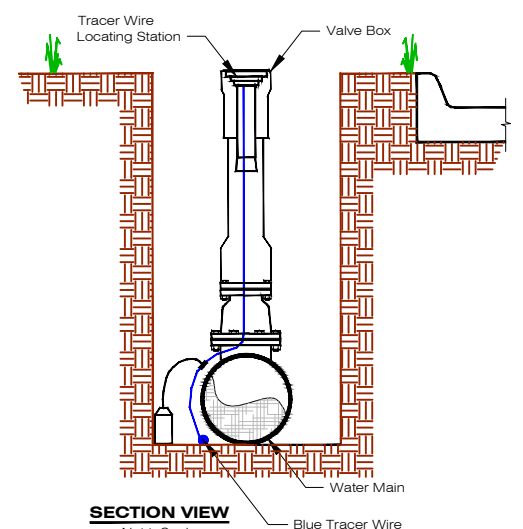
CONCRETE THRUST BLOCK
Not to Scale



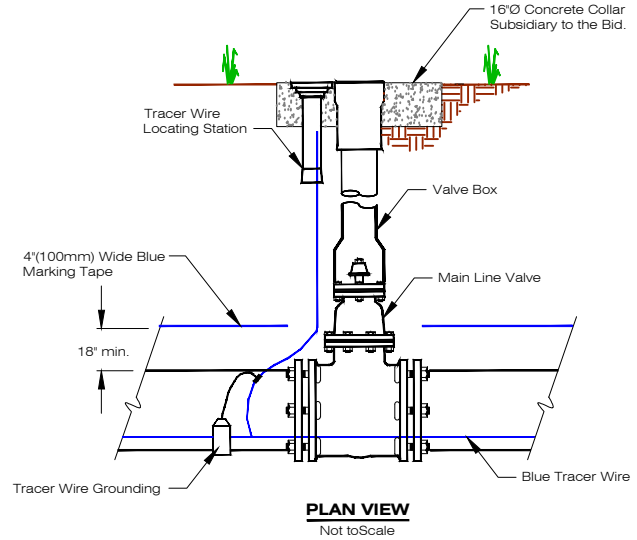
PLAN VIEW



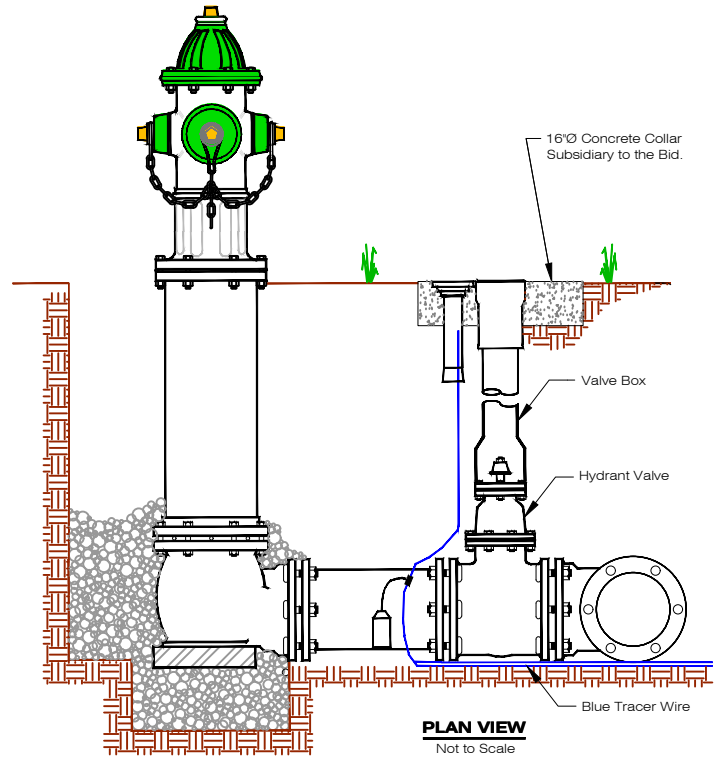
HYDRANT AND VALVE
Not to Scale



SECTION VIEW
Not to Scale

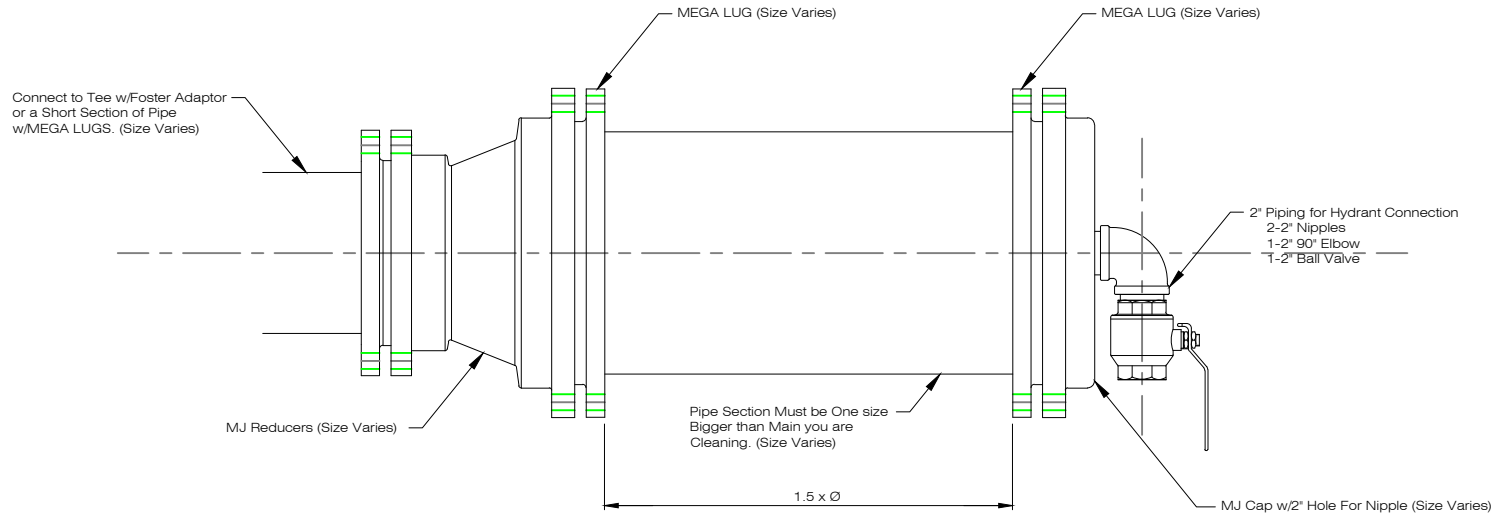


PLAN VIEW
Not to Scale



PLAN VIEW
Not to Scale

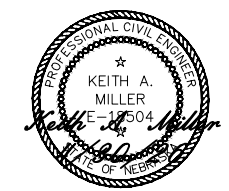
TRACER WIRE LOCATING STATION FOR MAIN LINE VALVE AND FIRE HYDRANT



PIG LAUNCHER
Not to Scale



No.	Revision	By	Date	Ckd	App
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MLMH Water Main
Relocation from St Joseph
Ave. from 7th St. to 8th St.
to 8th St. Denver Ave. to
Kansas Ave.



Desn	K. Miller
Dwn	S. Struss
Date	3/29/2026
Supt	B. Lubken
W.D. No.	
Ckd	
Ckd	
Sheet No.	CW3.1
No.	WR-140